15

20

5

## **Claims**

I Claim:

**3**1.

An enclosure cooling unit which comprises

a first heat exchanger,

a second heat exchanger,

a third heat exchanger, and

one or more Peltier devices;

wherein

said first heat exchanger transfers heat from said enclosure cooling unit to the ambient air outside said enclosure,

said second heat exchanger transfers heat from the air within said enclosure to said enclosure cooling unit,

said third heat exchanger transfers heat from cooling fluid circulating within said enclosure to said ambient air,

said one or more Peltier devices transfer heat from said second heat exchanger to said first heat exchanger, and

said one or more Peltier devices transfer heat from said second heat exchanger to said third heat exchanger.

2 22. The invention exchangers

The invention of Claim 21 additionally comprising one or more additional heat

wherein said enclosure additionally contains one or more heat producing components, and

wherein each of said additional heat exchangers transfers heat from one or more

25

10

of said heat producing components to said cooling fluid.

The invention of Claim 21 additionally comprising a controller unit and sensors wherein said sensors detect various temperature and flow rates within said enclosure cooling unit,

said sensors provide information regarding said detected temperature and flow rates to said controller.

said controller provides voltages and currents to electrical and/or electronic components within said enclosure cooling unit, and said controller utilizes said detected temperature and flow rates to determine said

voltages and currents.

15 4 24.. An enclosure cooling unit comprising

a first heat exchanger,

a second heat exchanger,

a third heat exchanger, and

one or more Peltier devices;

wherein

said first heat exchanger transfers heat from said enclosure cooling unit to the ambient air outside said enclosure,

said second heat exchanger transfers heat from the air within said enclosure to said enclosure cooling unit,

said third heat exchanger transfers heat from cooling fluid circulating within said enclosure to said enclosure cooling unit, and said one or more Peltier devices transfer heat from said second heat exchanger to

10

said first heat exchanger.

The invention of Claim 2

exchangers

The invention of Claim 24 additionally comprising one or more additional heat

wherein said enclosure additionally contains one or more heat producing

components, and

wherein each of said additional heat exchangers transfers heat from one or more

of said heat producing components to said cooling fluid.

6 26. The invention of Claim 23 additionally comprising a controller unit and sensors

wherein said sensors detect various temperature and flow rates within said

enclosure cooling unit,

said sensors provide information regarding said detected temperature and flow

rates to said controller,

said controller provides voltages and currents to electrical and/or electronic

components within said enclosure cooling unit, and

said controller utilizes said detected temperature and flow rates to determine said

voltages and currents.

An enclosure cooling unit comprising

a first heat exchanger,

a second heat exchanger,

a third heat exchanger, and

one or more Peltier devices;

wherein

said first heat exchanger transfers heat from said enclosure cooling unit to the

voltages and currents.

10,20.

The invention of Claim 27 wherein

ambient air outside said enclosure,

said enclosure to said enclosure cooling unit,

said second heat exchanger transfers heat from cooling fluid circulating within

said third heat exchanger transfers heat from the air within said enclosure to

5

5 Said one or more Peltler devices transfer heat from said third heat exchanger to said second heat exchanger.

The invention of Claim 27 wherein said one or more Peltier devices transfer heat from said third heat exchanger to said first heat exchanger.